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(71)Applicant : FUJI ELECTRIC CO LTD

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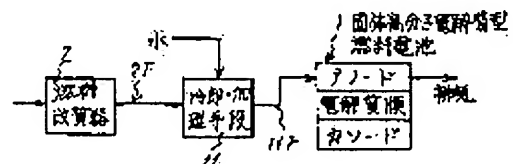
(72)Inventor : ENAMI YOSHIKI

## (54) FUEL CELL POWER GENERATOR SYSTEM WITH HIGH POLYMER SOLID ELECTROLYTE

### (57)Abstract:

PURPOSE: To provide a solid high-polymer electrolyte type fuel cell power generating system equipped with a reaction gas cooling and humidifying means which can cool and humidify the reaction gas without the use of any heat exchanger.

CONSTITUTION: A solid high-polymer electrolyte type fuel cell 1 consisting of a layer of unit cells where an anode and cathode are arranged in tight attachment on the two surfaces of a solid high-polymer electrolyte film in such a way as pinching it is equipped with a reaction gas cooling and humidifying means 11 which is to cool the reaction gas to a specified level by absorbing the thermal energy possessed excessively by the reaction gas 2F with the evaporative latent heat of the water, humidify the cooled reaction gas with the water vapor produced, and supply the resultant reaction gas 11F to the anode or cathode.



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